

# ND Hi-Temp Patch<sup>®</sup>

锁定和密封

PreApplied

ND Industries<sup>®</sup> is ISO9001:2000 / AS9001B / QPL-18240F Listed / QSLM Registered

ND  
INDUSTRIES

标准零配件  
汽车工业标准

## 产品描述:

- 在涂布ND Hi-Temp Patch过程可以产生一种完全干燥的涂层与紧固件熔合,经处理后的紧固件可随时使用。ND Hi-Temp Patch在组装时即可发挥作用,安装后无需固化过程。
- ND Hi-Temp Patch可以在-70°F (-50°C)的低温和+500°F (+260°C)的高温下保持正常的扭矩。
- ND Hi-Temp Patch一般需要在离紧固件尾部最少2-3螺纹处涂布4-6个螺纹的涂层以便螺母/螺栓的装配。
- ND Hi-Temp Patch可以应用在任何的紧固件中,大到建筑有螺栓,小到手机,计算机用的微小螺丝。
- ND Hi-Temp Patch的工作原理:当涂布有ND Hi-Temp Patch的紧固件与相应的孔洞或反向紧固件结合时,涂层被压缩,压缩层对反向紧固件产生一种“坝状”作用从而产生非常强的金属-金属的接触。ND Hi-Temp Patch完全入座时,它形成一种确实的锁紧即使在极其震荡的条件下也不会松脱。这种“坝状”作用同时也产生一种确实的密封防漏的作用。
- 就像对所有其它的预处理(pre-Applied)产品一样,ND Industries可以在任何一个服务中心为您的紧固件提供Hi-Temp Patch服务,或者我们可以直接向您提供经过Hi-Temp Patch处理过的紧固件。

## 产品特色:

- 保持原有的强度:ND Hi-Temp Patch处理过程不需要对紧固件进行任何加工,因此紧固件保持了原有的强度和硬度。
- 省钱:使用了ND Hi-Temp Patch,您就不需要垫圈,结合栓等附带产品,您可以花最少的钱获得最可靠的密封强度。
- 省时:经过ND Hi-Temp Patch处理后的紧固件可以被自动地传送到标准的输送设备中,这样就省了大量的时间。



## 产品特色:

- 耐高温 & 低温:ND Hi-Temp Patch的有效作用温度从-70°F (-50°C)到+500°F (+260°C)

## ND Hi-Temp Patch 符合甚至超出以下的技术指标或标准:

### 美国军事工业

- MIL-DTL-18240F, MIL-N-25027

### 美国汽车工业

- DaimlerChrysler PE-5144, PF-5461, PF-6157, PF-6158
- Ford ES-382101-S100, ES-378813-S100, ES-N80068-S100, WA970, ES-2 1002-S100
- General Motors GM6189P

### 美国工业固件所 (IFI)

- IFI124
- IFI524
- DIN267part28

### 外加工OEM

- JohnDeere JDT905
- Mack Trucks 3/6AXS5, 10AMSI
- FMC 126052
- Cummins Engine 16, 512-05
- Meritor (Rockwell) Q-70

如需完整的清单请联系ND INDUSTRIES

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稳得电子(昆山)有限公司  
ND ELECTRONICS (KUNSHAN) CO., LTD

# ND Hi-Temp Patch™

## Locking & Sealing



ND Industries® is ISO9001:2000 / AS9001B / QPL-18240F Listed / QSLM Registered



QPL-Listed  
Automotive Approved



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### DESCRIPTION:

- ❑ The ND Hi-Temp Patch coating process produces a completely dry product that is fused to the fastener and is ready to use right out of the box. ND Hi-Temp Patch performs immediately upon assembly with no curing time required.
- ❑ ND Hi-Temp Patch maintains its torque performance through **temperatures as low as -70°F (-50°C) and as high as +500°F (+260°C).**
- ❑ ND Hi-Temp Patch is generally applied to a minimum of 2-3 threads back from the end of the fastener with 4-6 threads of coverage to assure ease of starting the nut/bolt assembly.
- ❑ The ND Hi-Temp Patch can be applied to virtually any fastener, from very large construction bolts to tiny cellular phone and computer screws.
- ❑ How ND Hi-Temp Patch works: When a fastener coated with ND Hi-Temp Patch is mated to its corresponding hole or mating fastener, the material is compressed. This compression creates a dam-like action on the opposite side of the coated fastener creating very strong metal-to-metal contact. When ND Hi-Temp Patch is fully seated, it forms a positive lock that will not loosen, even under extreme vibration. This dam-like action also creates a positive seal to be used to prevent leakage.
- ❑ As with all of our **PreApplied** products, ND Industries can apply Hi-Temp Patch to your fasteners at any one of our regional service centers, or we can supply you with fasteners already coated with ND Hi-Temp Patch.

### FEATURES:

- ❑ **Retains Full Strength:** ND Hi-Temp Patch process involves no drilling or milling, so there is no loss of the fastener's strength or hardness and no troublesome burrs or chips.
- ❑ **Saves Money:** ND Hi-Temp Patch saves money by eliminating the need for expensive lock washers, cotter pins, or castellated nuts. ND Hi-Temp Patch is also less expensive than applying bottled thread locking compounds at the point of assembly.
- ❑ **Saves Time:** ND Hi-Temp Patch can be automatically fed through standard bowl feeders without the fear of material coming off.



### FEATURES CONTINUED:

- ❑ **Resists Heat & Cold:** ND Hi-Temp Patch is effective at temperatures from -70°F (-50°C) to +500°F (+260°C).

**ND Hi-Temp Patch meets or exceeds the performance requirements of the following specifications and/or standards:**

#### MILITARY

- ❑ MIL-DTL-18240F, MIL-N-25027

#### AUTOMOTIVE

- ❑ DaimlerChrysler PF-5144, PF-5461, PF-6157, PF-6158
- ❑ Ford ES-382101-S100, ES-378813-S100, ES-N800688-S100, WA970, ES-21002-S100
- ❑ General Motors GM 6189P

#### INDUSTRIAL FASTENER INSTITUTE

- ❑ IFI 124
- ❑ IFI 524
- ❑ DIN 267 Part 28

#### OEM

- ❑ John Deere JDT905
- ❑ Mack Trucks 3/6 AXS5, 10 AMS1
- ❑ FMC 126052
- ❑ Cummins Engine 16,512-05
- ❑ Meritor (Rockwell) Q-70

*For a complete list, contact ND INDUSTRIES.*

## 产品特点接：

- 抗化学性:ND Hi-Temp Patch 在化学溶剂,酒精,汽油,油类,强碱,燃料中不会变干,收缩变形或失去弹性。
- 重复使用:ND Hi-Temp Patch抗变形的特性使带有ND Hi-Temp Patch涂层的固件可以重复使用而不会损伤螺纹。
- 省力:为了保证零件涂布完全符合客户的要求,我们使用影像系统来监控ND Hi-Temp Patch的涂布过程。这通常消除了客户的二次分拣过程。
- 快速运转:ND Hi-Temp Patch涂布过程生产出一种完整的,非化学反应的,可随时使用的产品。ND Hi-Temp Patch在组装时即可发挥作用,安装后无需固化过程。
- 应用领域:
  - 汽车
  - 医药
  - 航天
  - 建筑
  - 电子
  - 军事

## 技术指标：

- 主要用途.....锁紧和密封
- 可重复使用次数.....不多于5次
- 材料.....强化尼戎(Nylon)
- 颜色.....桔色和灰色\*\*
- 硬度.....Shore D (ASTM D2240) 70-80硬度计
- 耐盐喷性.....(ASTM B1 17) 1000小时以上(X scribe)
- 耐磨性.....(ASTM D4060) 10-18毫克损失CS-10轮子,负重1000克,1000个循环
- 绝缘性.....(ASTM D149) 800-1200伏特/毫秒@10.0毫秒
- 耐撞击性.(MPTM 0002) 160英寸/磅(@10.0毫秒)

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\*\* QPL-18240 & MIL-DTL-18240F 要求灰色尼戎

保质期:在理想的储藏温度(+4°C to +32°C, or +40°F to +90°F) 下至少一年

**For more information on ND Hi-Temp Patch, or any of ND Industries' other quality fastening products, contact your nearest ND Service Center:**

**ND Western Fastener Processing Division**  
13929 Dinard Avenue  
Santa Fe Springs, California 90670  
Phone: 562-926-3321  
FAX: 562-926-4266

**ND Midwestern Fastener Processing Division/Detroit**  
1000 North Crooks Road  
Clawson, Michigan 48017  
Phone: 248-655-2529  
FAX: 248-655-2562

**ND Industries Asia, Inc./Taiwan**  
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Kaoshiung, Taiwan R.O.C.  
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**ND Southwestern Fastener Processing Division**  
3611 Dalworth Street  
Arlington, Texas 76011  
Phone: 817-633-2788  
FAX: 817-649-7730

**ND Midwestern Fastener Processing Division/Cleveland**  
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**ND Electronics (Kunshan) Co., Ltd.**  
395 Ye Cheng Zhong Road  
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**ND Midwestern Fastener Processing Division/Chicago**  
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**ND Southeastern Fastener Processing Division**  
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Charlotte, North Carolina 28217  
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FAX: 704-329-0975

**ND Industries Canada, ULC**  
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FAX: 905-405-0272

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Rockford, Illinois 61102  
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FAX: 815-963-4195

**ND Eastern Fastener Processing Division**  
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Oakland, New Jersey 07436  
Phone: 201-651-1500  
FAX: 201-651-1400

**ND Industries de Mexico, Inc.S.A. de C.V.**  
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Parque Industrial Kalos  
Santa Catarina, N.L. 66350  
Phone: 817-944-4769



**稳得电子(昆山)有限公司**  
ND ELECTRONICS (KUNSHAN) CO., LTD

## FEATURES CONTINUED:

- Chemical Resistant:** ND Hi-Temp Patch will not dry, shrink, or otherwise be effected when exposed to commercial solvents, alcohol, gasoline, oil, caustic soda, jet fuel, etc.
- Reusable:** Fasteners coated with ND Hi-Temp Patch can be re-used repeatedly without damage to the threads. ND Hi-Temp Patch is particularly resistant to deformation, which makes it ideal for repeated use.
- Saves Effort:** During the ND Hi-Temp Patch process, camera systems are used to verify the parts are coated exactly to customer's specifications. This often removes a secondary sorting operation at the end customer.
- Fast Turn-Around:** The ND Hi-Temp Patch process produces a complete, non-chemically reactive, ready to use product. The ND Hi-Temp Patch performs immediately upon assembly. There is no cure time required.
- Areas of Application:**
  - Automotive
  - Medical
  - Aerospace
  - Construction
  - Electronics
  - Military

## SPECIFICATIONS:

- Primary usage . . . . . Lock and Seal
- Reusability . . . . . Up to 5 on-off cycles
- Material . . . . . Reinforced Nylon
- Color . . . . . Orange and Gray\*\*
- Hardness . . . . . Shore D (ASTM D2240) 70-80 Durometer
- Salt Spray Resistance . . . . (ASTM B117) 1000+ hours (X scribe)
- Taber Abrasion . . . . . (ASTM D4060) 10-18 mg loss CS-10 wheel, 1000 g load, 1000 cycles
- Dielectric Strength . . . . . (ASTM D149) 800-1200 volts/mil @ 10.0 mils
- Direct Impact Resistance . . (MPTM 0002) 160 in.\* lbs. (@10.0 mils)

™ ND Hi-Patch is a trademark of ND Industries. ® ND and ND Industries are registered trademarks of ND Industries, Inc.

\*\* QPL-18240 & MIL-DTL-18240F requires gray nylon

Shelf Life: The on part shelf life is at least one year under ideal storage conditions (+4°C to +32°C, or +40°F to +90°F).

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